



Project – Egg Drop

- Identify the need or problem
- Research the problem
- Brainstorm ideas
- Analyze and select solution(s)
- Prototype
- Test, retest, and implement

Design Process

- Design and construct a device which will safely transport an egg during free fall landing. You may receive help with this project but the project must be completely constructed by the student.

Objective

- Device must hold 1 grade A Large egg
- Device must not be larger than 10inx10inx10in
- No parachutes, no Helium, ground support, or anything detaching during descent

Design Constraints

- Anything excluding commercial packaging products. Including but not limited to a box, packaging foam/peanuts, paper, bubble wrap, etc.
- Plastic bag (provided)

Material Constraints

- Egg will be placed in a plastic bag before placed into protective device
- Student will release egg from a predetermined height
- Student will time egg drop from time of release until time of impact
- Each device will be inspected before testing

Testing Parameters

Design Constraints	12 Points Device meets design constraints	6 Points Device does NOT meet all design requirements	0 Points Late device will not be tested
Material Constraints	16 Points Device meets all material constraints	8 Points Device does NOT meet all material constraints	0 Points Late device will not be tested
Egg Damage	12 Points Egg is not damaged	6 Points Egg is damaged	0 Points Late device will not be tested
Total	40		

Grading Rubric
